



[Go to Product page](#)

Datasheet for ABIN4996041

## anti-ADAM33 antibody (AA 701-800) (Alexa Fluor 680)

### Overview

Quantity:	100 µL
Target:	ADAM33
Binding Specificity:	AA 701-800
Reactivity:	Xenopus laevis
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADAM33 antibody is conjugated to Alexa Fluor 680
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from Xenopus laevis ADAM13
Isotype:	IgG
Cross-Reactivity:	Xenopus laevis
Cross-Reactivity (Details):	Xenopus laevis
Purification:	Purified by Protein A.

### Target Details

Target:	ADAM33
Alternative Name:	ADAM13 ( <a href="#">ADAM33 Products</a> )

## Target Details

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### Background:

Synonyms: NULL

Background: ADAM13 was first described as a protein expressed in somatic mesoderm and neural crest cells, in developing *Xenopus* embryos. ADAM13 was also found in liver, heart, and intestines from adult *Xenopus*. ADAM13 may regulate cellular signaling via Src and Src tyrosine kinase. ADAM13 may also act as a cell attachment molecule, by binding integrins through the cysteine rich domain among many other roles. A member of the metalloproteinase family containing disintegrin like domains (ADAMs) the functions of ADAM13 are still poorly understood. ADAM13 contains the canonical HExxHxxxxxH zinc metalloproteinase motif, as well as disintegrin, cysteine rich, EFG like, transmembrane and Cytoplasmic domains. ADAM13 has been shown to be proteolytically active, cleaving fibronectin after binding it to the EGF like domain. ADAM13 is also shed from cells in culture, cleaved aminoterminal from the transmembrane domain, and is released into the culture media. Shed ADAM13 is a 52 kD protein, and can form complexes with  $\alpha$ 2 macroglobulin, suggesting it is a competent protease. *Xenopus* ADAM13 has greatest homology with human ADAM 33 (51 % identical), and is 46 % identical with human or mouse ADAM12 or ADAM19. It is still unclear if any of these ADAMs are species orthologs of *Xenopus* ADAM13, but there are significant differences between the related sequences, suggesting that ADAM13 may be a unique protein. The full length *Xenopus* ADAM13 sequence codes for a 914 amino acid protein. Predicted mass is 99.749 kD, but glycosylation and cyteine rich regions give *Xenopus* ADAM13 an apparent MW of 120 kD unprocessed, and 97 kD processed forms, on reduced SDS PAGE gels. ADAM13 contains a putative furin cleavage site, suggesting that a prohormone convertase cleaves the propeptide domain away from the catalytic domain

## Application Details

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### Application Notes:

IF(IHC-P) 1:50-200

IF(IHC-F) 1:50-200

IF(ICC) 1:50-200

### Restrictions:

For Research Use only

## Handling

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### Format:

Liquid

### Concentration:

1  $\mu$ g/ $\mu$ L

### Buffer:

Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

## Handling

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Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months